## IN THE CLAIMS:

## Claims pending

At time of the action: Claims 1-4 and 6-20.

• After this response: Claims 1-4 and 6-20.

Currently Amended claims Claims 1, 9, and 18.

Currently Cancelled claims None.

New claims None.

 (Currently Amended) A method for controlling presentation of information to facilitate performance analysis for processing, the method comprising:

capturing a list of events directed at composing a video frame during processing of a set of commands by a graphics processing unit;

capturing the state of the graphics processing unit for each of the captured events;

displaying a listing of the captured events as well as information regarding the processing of the events;

displaying a window including a video frame portion that displays a rendering of the video frame;

receiving a user selection of one of the events in of the listing;

modifying the selected event;

eonfiguring setting the state of the graphics processing unit to the captured state associated with the selected event; to execute the selected event;

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executing <u>commands associated with</u> the selected event in the graphics processing unit; and

displaying in the video frame portion a visual representation of the frame resulting from the execution of the selected event,

- (Original) A method as recited in claim 1, wherein the information regarding the processing of the events comprises a value representing how long it took for processing of the events by a processing unit to finish.
  - 3. (Original) A method as recited in claim 1, further comprising:

displaying a timeline portion including a timeline having a plurality of bars, each bar corresponding to a particular one of the events, wherein a location of each bar on the timeline indicates when the corresponding event occurred relative to the other events during processing.

4. (Original) A method as recited in claim 1, further comprising:

allowing the user to select a warning window, to be displayed as the frame portion, wherein the warning window identifies violations of one or more recommendations for programming a processing unit that processed the set of commands.

## 5. (Cancelled).

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 (Previously Presented) A method as recited in claim1, further comprising:

allowing the user to select one of multiple views to be displayed in the frame portion, wherein the multiple views include a render target view that shows the frame as it is drawn at different chronological points while being drawn, a depth buffer view that shows a depth value for each pixel in the frame at different chronological points while the frame is being drawn, and a wireframe view that shows an outline of each triangle rendered in the frame at different chronological points while the frame is being drawn.

7. (Previously Presented) A method as recited in claim 1, further comprising:

allowing the user to select one of multiple views to be displayed in the frame portion, wherein the multiple views include an overdraw view that shows graphically how many times each pixel in the frame is drawn, and a fill rate view that shows how fast a graphics processing unit that drew the frame was running when each pixel in the frame was drawn.

8. (Previously Presented) A method as recited in claim 1, further comprising:

a debugger portion that identifies a pixel shader program or vertex shader program that was executed by a graphics processing unit in drawing the frame, and further identifies input and output register values for each instruction in the shader program as it executed in drawing the selected pixel.

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9. (Currently Amended) One or more computer readable media having one or more instructions that, when executed by one or more processors, causes the one or more processors to:

[[C]]capture a list of events directed at composing a video frame during processing of a set of commands by a graphics processing unit;

capture the state of the graphics processing unit for each of the captured events;

display a first window that identifies the list of events that have been captured during the drawing of the video frame;

receive a user selection of one of the events in the list:

modify the selected event;

eonfigure set the state of the a-graphics processing unit to the captured stated associated with execute the selected event;

execute <u>commands associated with</u> the selected event in the graphics processing unit; and

display a second window including a video frame portion that shows how the frame appears at different points while being drawn.

10. (Original) One or more computer readable media as recited in claim 9, wherein the first window further identifies, for each of the identified events, a value representing how long it took for drawing of the event by a graphics processing unit to occur.

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(Original) One or more computer readable media as recited in claim
wherein the one or more instructions further causes the one or more processors
to:

display a third window including a timeline having a plurality of bars, each bar corresponding to a particular one of the identified events, wherein a location of each bar on the timeline indicates when the corresponding event occurred relative to the other events during drawing of the frame.

12. (Currently Amended) One or more computer readable media as recited in claim [[1]] 9, wherein the one or more instructions further causes the one or more processors to:

allow the user to select one of multiple views to be displayed in the second window, wherein the multiple views include a render target view that shows the frame as it is drawn at different points while being drawn, a depth buffer view that shows a depth value for each pixel in the frame at different points while the frame is being drawn, and a wireframe view that shows an outline of each triangle rendered in the frame at different points while the frame is being drawn.

(Original) One or more computer readable media as recited in claim
wherein the one or more instructions further causes the one or more processors

allow the user to select one of multiple views to be displayed in the second window, wherein the multiple views include an overdraw view that shows graphically how many times each pixel in the frame is drawn, and a fill rate view

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that shows how fast a graphics processing unit that drew the frame was running when each pixel in the frame was drawn.

(Original) One or more computer readable media as recited in claim
wherein the one or more instructions further causes the one or more processors

allow the user to select a warning window, to be displayed as the second window, wherein the warning window identifies violations of one or more recommendations for programming a graphics processing unit that drew the frame.

(Original) One or more computer readable media as recited in claim
wherein the one or more instructions further causes the one or more processors

display a pixel history window that identifies each of the events that affects a user-selected pixel of the frame.

16. (Original) One or more computer readable media as recited in claim 9, wherein the one or more instructions further causes the one or more processors to:

display a debugger window that identifies a pixel shader program or vertex shader program that was executed by a graphics processing unit in drawing the frame, and further identifies input and output register values for each instruction in the shader program as it executed in drawing the selected pixel.

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17. (Original) One or more computer readable media as recited in claim 9, wherein the one or more instructions further causes the one or more processors to:

display a mesh debugger window that includes information about a single mesh of the frame, and a table that shows the attribute values for each vertex in the mesh as well as an output of a vertex shader program for each vertex in the mesh.

18. (Currently Amended) A system comprising:

a memory;

a processor coupled to the memory; and

a plurality of instructions stored in the memory and executed by the processor to present a user interface to enable a user to view information regarding a frame of video, the user interface comprising:

a list of events including events captured during composition of a video frame by a graphics processing unit, wherein each captured event represents a command submitted to the graphics processing unit;

an events window that identifies the events <u>captured during the</u> composition of the video frame;

a frame window that shows how the <u>video</u> frame appears appeared immediately after a particular event was finished being drawn, at different chronological points while being drawn by the graphics processing unit.

 (Original) A system as recited in claim 18, wherein the graphics processing unit is part of another device coupled to the system.

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20. (Original) A system as recited in claim 18, wherein the user interface further comprises:

a timeline window including a timeline having a plurality of bars, each bar corresponding to a particular one of the identified events, wherein a location of each bar on the timeline indicates when the corresponding event occurred relative to the other events during drawing of the frame.

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